CHROMIUM TRIOXIDE, EXTRA PURE

SECTION 1: PRODUCT IDENTIFICATION

Product Name: CHROMIUM TRIOXIDE, EXTRA PURE
Product Code: 192
CAS#: 77-92-9
Chemical Formula: CrO_2
Molecular Formula: 99.99

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:
Name: CHROMIUM TRIOXIDE, EXTRA PURE
Chemical Formula: CrO_2
Molecular Formula: 99.99

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture: Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Oxidizing solids, (Category 1) H271: May cause fire or explosion; strong oxidizer.
Acute toxicity, (Category 3) H301: Toxic if swallowed.
Acute toxicity, (Category 2) H330: Fatal if inhaled.
Acute toxicity, (Category 3) H311: Toxic in contact with skin.
Skin corrosion, (Sub-category 1A) H314: Causes severe skin burns and eye damage..
Other hazards – none

SECTION 4: FIRST AID MEASURES

Eye Contact: Flush eyes with water as a precaution.
Skin Contact: Wash off with soap and plenty of water.
Serious Skin Contact: Not Available.
Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Serious Inhalation: Not Available
Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.
Serious Ingestion: Not available

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture Carbon oxides, nitrogen oxides (NOx), Sulphur oxides, Sodium oxides
Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.

SECTION 7: HANDLING AND STORAGE

Precautions: Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.
Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Hygroscopic**.**

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls
Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment
Eye/face protection Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Body Protection Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance Form	: Dark red flakes.
Odour	: Not available
Taste	: Not available
Molecular Weight	: Not available
Colour	: Not available
pH	: Not available
Boiling Point	: Not available
Melting Point	: Not available
Critical Temperature	: Not available
Specific Density	: Not Available
Volatility	: Not Available
Odor Threshold	: Not Available
Water/Oil Dist. Coeff.	: Not Available
Ionicity (in Water)	: Not Available
Dispersion Properties	: Not Available
Solubility	: Not available

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: Stable under recommended storage conditions
Instability Temperature: Not available
Conditions of Instability: Excess heat.
Incompatibility with various substances: Strong oxidizing agents
Special Remarks on Reactivity: Not available

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute toxicity LD50 Oral - Rat - male and female - 52 mg/kg (OECD Test Guideline 401) Acute toxicity estimate Oral - 52 mg/kg (ATE value derived from LD50/LC50 value) Acute toxicity estimate Inhalation - 0,051 mg/l - dust/mist (Expert judgment) Acute toxicity estimate Dermal - 300,1 mg/kg
Skin corrosion/irritation Skin - Rabbit Result: Corrosive - 0,5 h Remarks: (ECHA)
Serious eye damage/eye irritation Eyes - Eyes - Rabbit Result: Causes burns. Remarks: (ECHA) Remarks: Causes serious eye damage.
Respiratory or skin sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled. Patch test: - Human Result: positive Remarks: (IUCLID) May cause an allergic skin reaction
Carcinogenicity No data available
Reproductive toxicity No data available
Specific target organ toxicity - single exposure Inhalation - May cause respiratory irritation.
Specific target organ toxicity - repeated exposure No data available
Aspiration hazard No data available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity
Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 33,2 mg/l - 96 h Remarks: (in analogy to similar products) (ECHA) Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 0,035 mg/l - 48 h Remarks: (ECHA) Toxicity to fish(Chronic toxicity) NOEC - Poecilia reticulata (guppy) - 3,5 mg/l - 28 d Remarks: (ECHA) Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)
Persistence and degradability The methods for determining the biological degradability are not applicable to inorganic substances.
Bioaccumulative potential No data available
Mobility in soil No data available
Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

UN number:
ADR/RID: 1463 **IMDG:** 1463 **IATA:** 1463
UN proper shipping name
ADR/RID: Chromium trioxide, anhydrous
IMDG: Chromium trioxide, anhydrous
IATA: Chromium trioxide, anhydrous
Transport hazard class(es):
ADR/RID:5.1 (6.1, 8) **IMDG:** 5.1 (6.1, 8) **IATA:** 5.1 (6.1, 8)
Packaging group:
ADR/RID: II **IMDG:** II **IATA:** II
Environmental hazards:
ADR/RID: yes **IMDG Marine pollutant:** yes **IATA:** No

SECTION 15: OTHER REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: Not available
Chemical Safety Assessment: Not available.

SECTION 16: OTHER INFORMATION

References:
H271 May cause fire or explosion; strong oxidizer
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H340 May cause genetic defects.
H350 May cause cancer.
H361f Suspected of damaging fertility.
H372 Causes damage to organs through prolonged or repeated exposure if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects
Other Special Considerations: Not available

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